

ECS Configuration Change Request

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1. Originator Randy Miller	2. Log Date: 1/18/99	3. CCR #: 99-0043	4. Rev: -	5. Tel: x0400	6. Off: 2078	7. Org. Dev/CO
8. Title of Change: Authorize SMC to Distribute Silver Patch (4PX.19) to GSFC, LaRC, and NSIDC						
9. Originator Signature <i>Randy Miller</i>	10. Date: 1/18/99	11. Class II	12. Type: CCR	13. Need Date: 1/18/99		
14. Office Manager Signature <i>Charles Thomas</i>	15. Date: 1/18/99	16. Date CCB Decision Needed: 1/18/99	17. Category of Change: Update Baseline	18. Priority: Emergency		
19. Documentation/Drawings Impacted: Patch Documentation Attached		20. Schedule Impact: None		21. CI(s) Affected: DMS, INS, STMGT		
22. Release Affected: 4PX	23. Date due to Customer: 1/18/99	24. Impl. Date: 1/18/99	25. Effectivity of Change: 1/18/99	26. Est. Cost None		
27. Source Reference: <input checked="" type="checkbox"/> NCR (attach) <input type="checkbox"/> Action Item <input type="checkbox"/> GSFC CCR <input type="checkbox"/> Tech Ref. <input type="checkbox"/> Other: 19916 and 19778						
28. Description of Change: (use additional Sheets if necessary) Fixes for problems in the V0 Gateway and the ftp Servers are being made to the 4PX baseline.						
29. Proposed Solution: (use additional sheets if necessary) Authorize the SMC to distribute the 4PX.19 (Silver) tar files to GSFC, LaRC, and NSIDC.						
30. Alternate Solution: (use additional sheets if necessary) Delay release of 4PX.19 to GSFC, LaRC, and NSIDC.						
31. Consequences if Change(s) are not approved: (use additional sheets if necessary) ETE preparation schedule for GSFC may be adversely impacted by delay.						
32. Does Change Affect Any of the following (Please Explain on additional sheet): <input type="checkbox"/> Maintenance Training <input type="checkbox"/> Performance <input type="checkbox"/> Operation Training <input type="checkbox"/> Safety <input type="checkbox"/> Service <input type="checkbox"/> Support <input type="checkbox"/> Test <input type="checkbox"/> Baseline (XRP) <input type="checkbox"/> Y2K Compliance						
33. Organization(s) Affected: <input type="checkbox"/> CM <input type="checkbox"/> Clearcase SG <input type="checkbox"/> Contracts <input type="checkbox"/> Chief Eng <input type="checkbox"/> FOS <input type="checkbox"/> M&O <input type="checkbox"/> QO <input type="checkbox"/> Rel Dev <input type="checkbox"/> Procurement <input type="checkbox"/> RTSC <input checked="" type="checkbox"/> Sci. Data Eng <input type="checkbox"/> Security <input type="checkbox"/> Sys. Dev. <input type="checkbox"/> Sys. Eng. <input type="checkbox"/> Sys Verf Acpt <input type="checkbox"/> Other						
34. Site(s) Affected: <input type="checkbox"/> EDF <input type="checkbox"/> Mini-DAAC <input type="checkbox"/> VATC <input type="checkbox"/> EDC <input checked="" type="checkbox"/> GSFC <input checked="" type="checkbox"/> LaRC <input checked="" type="checkbox"/> NSIDC <input checked="" type="checkbox"/> SMC <input type="checkbox"/> AK <input type="checkbox"/> JPL. <input type="checkbox"/> EOC <input type="checkbox"/> Other						
35. Board Comments:				36. Work Assigned To:		
37. Release Authorized (For CM Use Only): <input type="checkbox"/> Yes <input type="checkbox"/> No			38. CM Verified/Signature and Date			
39. EDF/REL2 CCB Chair (Sign/Date): <i>Mark D. Dendall</i> 1/18/99		40. Disposition: <input checked="" type="checkbox"/> App <input type="checkbox"/> Ap/C <input type="checkbox"/> DisApproved <input type="checkbox"/> Withdraw <input type="checkbox"/> Fwd/ECS <input type="checkbox"/> Fwd/ESDIS		41. ESDIS ERB Concurrence:		
42. ECS CCB Chair (Sign/Date):		43. Disposition: App <input type="checkbox"/> A/C <input type="checkbox"/> DisApproved <input type="checkbox"/> Withdraw <input type="checkbox"/>		44. CCR Closed Date:		

CM01 August 27, 1998

ECS/EDF/REL2 CCB

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4PX Patch "Silver"

Purpose

The Silver patch (4PX.19) provides fixes to the V0 Gateway, the Ingest ftp Server, and the ftp Distribution Server.

NCRs Fixed

The Silver patch fixes NCRs 19916 and 19778.

Nature of Fix

C++ code was modified in DMS and STMGT, and a database SQL script has been provided to make data changes in the Data Dictionary database.

Installation Instructions

Dependencies And Preconditions. The Silver patch can only be installed into modes containing the 4PX.18 (Ruby) revision level of ECS.

Contents of the Patch Kit: This patch consists of two tar files, with contents as follows:

Sun:

DMS:

.dbparms
EcDmDdDbPatch
EcDmDdDbPatch4PX.sql
EcDmV0ToEcsGateway

SGI:

STMGT:

EcDsStIngestFtpServer
EcDsStFtpDisServer

READ ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION.

General Instructions. These instructions are to be followed for all subsystems, **except as noted below** under Subsystem Specific Instructions:

- 1) Download and stage the files for the delivery from the SMC.
- 2) DO NOT perform any clean-up activities (data, databases, CDS entries, et cetera).
- 3) DO NOT install ECS Assist from the staging directory using the setup script.

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4) Copy the files from the staging area to their target directories, overwriting the existing versions of these files: The EcDmV0ToEcsGateway is copied to the Interface Servers (xxins01 and xxins02). The DMS database files (.dbparms, EcDmDdDbPatch, and EcDmDdDbPatch4PX.sql) are copied to the Data Dictionary database host. The Ingest ftp Server (EcDsStIngestFtpServer) and the ftp Distribution Server (EcDsStFtpDisServer) are copied to each host in the system that currently hosts these servers (this is site specific).

5) DO NOT perform an installation to SHARED Mode.

6) DO NOT perform a Toolkit installation.

7) DO NOT perform any mkconfigs using ECS Assist -- no changes in configuration are required by the patch.

8) DO perform a Data Dictionary database update as described below.

9) DO NOT re-install any ESDTs.

Subsystem Specific Instructions.

DMS:

Instructions to apply the SQL patch to the Data Dictionary database:

1. Bring up EcCoAssist (/tools/common/ea/EcCoAssist) on the Data Dictionary database host.
2. Select the proper Mode from the Modes List (e.g., TS1).
3. Select the DM subsystem from the Subsystems List.
4. Select the EcDm(NONE) component from the Components List.
5. Click on the "database" button in Common Tasks at the top to bring up a popup menu.
6. Select the DbPatch option to popup a "Database Config Screen" dialog box. The PATCH_FILE field should show EcDmDdDbPatch4PX.sql
7. Press the OK button to popup a "Database Script Parameters" dialog box.
8. Fill in the appropriate values for the DBO ID, Password, and SQL Server Name fields. The Database Name field should be EcDmDictService_<MODE>. Execute the script.
9. To confirm a successful dbpatch, the contents of /usr/ecs/<MODE>/CUSTOM/logs/EcDmDbPatch.log should be as follows (the host and date/time will vary depending on the site and when the patch is applied):

Patching Databases for EcDm on dms1 starting at Fri Jan 15 14:06:02 EST
1999

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Running EcDmDdDbPatch4PX.sql
Start running Drop4PX Patch...

Jan 15 1999 2:06PM

(1 row affected)
Updating the DmDdValidsMapping table...
(0 rows affected)
(0 rows affected)
(0 rows affected)
(0 rows affected)
Updating DmDdECSAttributes table...
(1 row affected)
(1 row affected)
(1 row affected)
(1 row affected)
(1 row affected)
(1 row affected)
(1 row affected)
(1 row affected)
(1 row affected)
(1 row affected)
(1 row affected)
(1 row affected)
4PX DDICT database patch complete...
Patch through EcDmDdDbPatch4PX.sql is done.

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NCR Search Results

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NCR ID: ECSed19778 Status: ASSIGNED-TEST
NCR Class: REL_B0_INFORMAL Project: RelB0_STMGT

Submit Date: 981218
Enclosures: 6

NCR TITLE....

Larry server ingest failure due to ftp change

DETECTION INFORMATION....

Build Name[*]: Drop 4PX.10
Test Site[*]: GSFC DAAC
Detection Method[*]: Engineering Test
Detected-In-Phase[*]: DAAC Activity
Build ID: 4PX.10
Test Case ID:
Platform ID: g0icg01.gsfc.ecs.na
Severity (1=Showstopper)[*]: 1
Need fix by [*]: Emergency
Mode [*]: TS1
Trouble Ticket:

REVIEW-ASSIGN INFORMATION....

Evaluate Engineer: mwong
Assigned To: jcrawfor
Iteration [*]: Drop 4PY

SUBMITTER INFORMATION....

Submitter: jburt

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NCR ID: ECSed19778 Status: ASSIGNED-TEST
NCR Class: REL_B0_INFORMAL Project: RelB0_STMGT

TO BE FIXED INFORMATION....

Problem Type[*]: source code
Recommended Change[*]: source code
Est. Fix Time (Hrs): 4
Est. Compl. Date (yymmdd): 981223
Related NCR ID: N/A

RESOLUTION INFORMATION....

Resolution[*]: source code
Resolved by: jcrawfor
Indicate_SLOC[*]: Added
Num_SLOC: 8
Fixing Time (hrs): 4
Documentation affected (Y/N)? N
Affect CSCI: STMGT
Merge Build Id: N981223002

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******* Problem *******

During attempts to verify that Ingest can properly poll and ingest MODIS ancillary data files from the larry server, failures occurred due to an illegal ftp PORT command sent to the larry server. The fix documented in ECSed18069 and delivered in 4PX.10 has caused the interface with larry server to fail.

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***** Impact *****

The failure of the interface with larry server means that GDAAC cannot become operational.

***** Status 981221 - JChang (Added 981221 by jchang) *****

This NCR should be forwarded to Storage Management. They are currently evaluating the problem with GSFC personnel. This problem deals with the ftp process running on the Larry server.

***** Analysis *****

Please describe your Analysis:

The ACG01 server at Goddard is a dual-port host. Since gethostbyname() returns a list of addresses, on ACG01 the list includes two entries, not one. The current implementation of the FTP client uses only the first returned address to connect to the remote FTP daemon. Since the IP address selected does not match the IP address through which the network connection was made, the remote FTP daemon is refusing the PORT command. The code needs to be modified to try each of the IP addresses in turn, until either a successful PORT connection is made or the list is exhausted, whichever comes first.

***** Previous Merge Build IDs *****

Please enter any related Merge Build ID(s) information:

- 1)
- 2)
- 3)
- 4)

***** Resolution *****

Please describe your resolution to this problem:

Added a loop to step through the entire list of IP addresses returned by gethostbyname(). PORT is tried on each one, in succession, until either the PORT command succeeds, or the list is exhausted. A new socket is created (and cleaned up) for each address attempted.

***** History *****

xddts 981218 182136 Submitted to RelB0_INGST by jburt

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xddts 981218 182558 Enclosure "Problem" added by jburst
xddts 981218 182702 Enclosure "Impact" added by jburst
xddts 981221 105821 N -> A (Assigned-to jchang) by mwong
xddts 981221 123931 Fields modified by sbarrier
xddts 981221 135601 Enclosure "Status 981221 - JChang" added by jchang
xddts 981221 140108 Forwarded from RelB0_INGST to RelB0_DDIST by jchang
xddts 981221 144905 Forwarded from RelB0_DDIST to RelB0_STMGT by jchang
xddts 981223 133145 Enclosure "Analysis" added by mwong
xddts 981223 133145 A -> R (Recommend-change = source code) by jcrawfor
xddts 981223 133147 Fields modified by jcrawfor
xddts 981223 140212 Enclosure Previous Merge Build IDs added by jcrawfor
xddts 981223 140305 Enclosure Resolution added by jcrawfor
xddts 981223 140305 R -> T by jcrawfor
xddts 990110 215717 Fields modified by jboliek

Last Modified: 10/5/98

Questions, sugestions or comments, please contact:

NCR Administrator:

Tony Wells (301) 925-1089, tonyw@eos.hitc.com

NCR web:

Wilson Ouyang (301) 883-4036, wouyang@eos.hitc.com**ORIGINAL**



NCR Search Results

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NCR ID: ECSed19916 Status: ASSIGNED-TEST Submit Date: 981224
NCR Class: REL_B0_INFORMAL Project: RelB0_DMS Enclosures: 5

NCR TITLE....

V0-ECS: Spatial searches broken unless AOI same shape as data.

DETECTION INFORMATION....

Build Name[*]: Drop 4PX.16
Test Site[*]: VATC
Detection Method[*]: Planned Test
Detected-In-Phase[*]: System Verificatio
Build ID:
Test Case ID:
Platform ID: tlines01
Severity (1=Showstopper)[*]: 2
Need fix by [*]: Critical
Mode [*]: TS2
Trouble Ticket:

REVIEW-ASSIGN INFORMATION....

Evaluate Engineer: gswope
Assigned To: perabell
Iteration [*]: Drop 4PY

SUBMITTER INFORMATION....

Submitter: lcase

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NCR ID: ECSed19916 Status: ASSIGNED-TEST
NCR Class: REL_B0_INFORMAL Project: RelB0_DMS

TO BE FIXED INFORMATION....

Problem Type[*]: source code
Recommended Change[*]: source code
Est. Fix Time (Hrs): 60
Est. Compl. Date (yyymmdd): 980115
Related NCR ID: N/A

RESOLUTION INFORMATION....

Resolution[*]: source code
Resolved by: perabell
Indicate_SLOC[*]: Combination
Num_SLOC: 60
Fixing Time (hrs): 60
Documentation affected (Y/N)? N
Affect CSCI: GatewayCSCI
Merge Build Id: M990118003

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***** Problem *****
Searching for the V0 Web Client or B0SOT, doesn't matter which, if the user specifies a polygon and the L7 dataset, the search works correctly. If they specify a bounding rectangle, it doesn't. The reason is that the mapping of the spatial attributes in DmGwAttributeMap is hardcoded. A RANGLE_LOC is mapped as BoundingBox and a POLYGON_LOC is mapped as a GPolygon. The DmGwAttributeMap should go to the DDICT and look at

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the shape of the spatial attribute for the collection and use that as the name in the search to the SDSRV. This will allow the SDSRV to search the correct table when looking for data.

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If a collection doesn't have a spatial attribute, the spatial search condition should be dropped from the search to the SDSRV. This is related to NCR 19333 that was in the V0 Client bin.

***** Impact *****

The user would have to know what shape each dataset was and draw the correct shape and restrict by all collections with a common shape. This is not acceptable since the user doesn't have this information available to him unless he already knows it.

***** Analysis *****

Please describe your Analysis:

Spatial attributes are not getting mapped from Data Dictionary Table

***** Previous Merge Build IDs *****

Please enter any related Merge Build ID(s) information:

1)M990118003

2)

3)

4)

***** Resolution *****

Please describe your resolution to this problem:

Query data dictionary database to do spatial attribute mapping from V0 to ECS

***** History *****

xddts 981224 114240 Submitted to RelB0_DMS by lcase
xddts 981224 114703 Enclosure "Problem" added by lcase
xddts 981224 114806 Enclosure "Impact" added by lcase
xddts 990104 171924 N -> A (Assigned-to perabell) by gswope
xddts 990118 103224 Enclosure "Analysis" added by gswope
xddts 990118 103224 A -> R (Recommend-change = source code) by perabell
xddts 990118 103353 Enclosure Previous Merge Build IDs added by perabell
xddts 990118 103513 Enclosure Resolution added by perabell
xddts 990118 103513 R -> T by perabell

Last Modified: 10/5/98

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